



PATENT & TRADEMARK OFFICE		ATTY. DOCKET NO. 1966.0020003/EKS/BJD/FRC	APPLICATION NO. 10/080,713
FORM PTO-1449		APPLICANT COLMAN et al.	
<u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>		FILING DATE February 25, 2002	GROUP 1632

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
TNT	AA1	5,945,577	08/31/1999	Stice, S.L. et al.	800	24	01/10/1997
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## FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
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TNT	AL1	WO 97/07668	03/06/1997	WIPO			Yes No
TNT	AM1	WO 97/07669	03/06/1997	WIPO			Yes No
TNT	AN1	WO 97/37009	10/09/1997	WIPO			Yes No
TNT	AO1	WO 98/06834	02/19/1998	WIPO			X Yes No
TNT	AP1	WO 98/07841	02/26/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	1	Alexander, L.J., et al., "Complete sequence of the bovine $\beta$ -lactoglobulin cDNA," <i>Nucl. Acids. Res.</i> 17:6739, IRL Press Ltd. (1989).
TNT	AS	1	Arbonés, M.L., et al., "Gene targeting in normal somatic cells: inactivation of the interferon- $\gamma$ receptor in myoblasts," <i>Nat. Genet.</i> 6:90-97, Macmillan Publishers Ltd (1994).
TNT	AT	1	Bertling, W.M., et al., "Use of Liposomes, Viral Capsids, and Nanoparticles as DNA Carriers," <i>Biotech. Appl. Biochem.</i> 13:390-405, Academic Press Inc. (1991).

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TNT	AL2 98/27214	06/25/1998	WIPO	—	—	Yes No
	AM2 98/30683	07/16/1998	WIPO	—	—	Yes No
	AN2 98/37183	08/27/1998	WIPO	—	—	Yes No
↓	AO2 98/39416	09/11/1998	WIPO	—	—	Yes No
TNT	AP2 99/01163	01/14/1999	WIPO	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	2	Brandon, E.P., et al., "Targeting the mouse genome: a compendium of knockouts (part I)," <i>Curr. Biol.</i> 5:625-634, Current Biology Ltd. (1995).
TNT	AS	2	Brandon, E.P., et al., "Targeting the mouse genome: a compendium of knockouts (part II)," <i>Curr. Biol.</i> 5:758-765, Current Biology Ltd. (1995).
TNT	AT	2	Brandon, E.P., et al., "Targeting the mouse genome: a compendium of knockouts (part III)," <i>Curr. Biol.</i> 5:873-881, Current Biology Ltd. (1995).

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TNT	AL3 WO 99/01164	01/14/1999	WIPO	—	—	Yes No
	AM3 WO 99/03981	01/28/1999	WIPO	—	—	Yes No
	AN3 WO 99/21415	05/06/1999	WIPO	—	—	Yes No
↓	AO3 WO 00/42174	07/20/2000	WIPO	—	—	Yes No
TNT	AP3 WO 01/49106	07/12/2001	WIPO	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	3	Brehm, A., et al., "Retinoblastoma protein recruits histone deacetylase to repress transcription," <i>Nature</i> 391:597-601, Macmillan Publishers Ltd. (February, 1998).
TNT	AS	3	Brown, K.E., et al., "Dynamic Repositioning of Genes in the Nucleus of Lymphocytes Preparing for Cell Division," <i>Mol. Cell</i> 3:207-217, Cell Press (February, 1999).
TNT	AT	3	Buerstedde, J.M. and Takeda, S., "Increased Ratio of Targeted to Random Integration after Transfection of Chicken B Cell Lines," <i>Cell</i> 67:179-188, Cell Press (1991).

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	4	Campbell, K.H.S., et al., "Nuclear-Cytoplasmic Interactions during the First Cell Cycle of Nuclear Transfer Reconstructed Bovine Embryos: Implications for Deoxyribonucleic Acid Replication and Development," <i>Biol. Reprod.</i> 49:933-942, Society for the Study of Reproduction (1993).
TNT	AS	4	Campbell, K.H.S., et al., "Cell cycle co-ordination in embryo cloning by nuclear transfer," <i>Rev. Reprod.</i> 1:40-46, Society for the Study of Fertility (1996).
TNT	AT	4	Campbell, K.H.S., et al., "Improved Development to Blastocyst of Ovine Nuclear Transfer Embryos Reconstructed during the Presumptive S-Phase of Enucleated Activated Oocytes," <i>Biol. Reprod.</i> 50:1385-1393, Society for the Study of Reproduction (1994).

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TNT	AR	5	Campbell, K.H.S., et al., "Sheep cloned by nuclear transfer from a cultured cell line," <i>Nature</i> 380:64-66, Macmillan Publishers Ltd. (1996).
TNT	AS	5	Cao, X., et al., "Effects of fibroblast-mediated interleukin 3 and interleukin 6 gene therapy on hematopoiesis in mice treated with 5-fluorouracil," <i>J. Mol. Med.</i> 76:782-789, Springer-Verlag (published online September, 1998).
TNT	AT	5	Cherny, R.A. and Merei, J., "Evidence for Pluripotency of Bovine Primordial Germ Cell-Derived Cell Lines Maintained in Long-Term Culture," <i>Theriogenology</i> 41:175, Butterworth-Heinemann (1994).

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TNT	AR	6	Chen, W.Y., et al., "Reactivation of silenced, virally transduced genes by inhibitors of histone deacetylase," Proc. Natl. Acad. Sci. USA 94:5798-5803, National Academy of Sciences (1997).
TNT	AS	6	Christenson, R.K. and Day, B.N., "Maintenance of Unilateral Pregnancy in the Pig with Induced Corpora Lutea," J. Anim. Sci. 32:282-286, American Society of Animal Science (1971).
TNT	AT	6	Cibelli, J.B., et al., "Cloned Transgenic Calves Produced from Nonquiescent Fetal Fibroblasts," Science 280:1256-1258, American Association for the Advancement of Science (May, 1998).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	Z	Cibelli, J.B., et al., "Transgenic bovine chimeric offspring produced from somatic cell-derived stem-like cells," <i>Nat. Biotechnol.</i> 16:642-646, Macmillan Publishers Ltd. (July, 1998).
TNT	AS	Z	Cole-Strauss, A., et al., "Correction of the Mutation Responsible for Sickle Cell Anemia by an RNA-DNA Oligonucleotide," <i>Science</i> 273:1386-1389, American Association for the Advancement of Science (1996).
TNT	AT	Z	Colman, A. and Garner, I., "Transgenic Animals in Science and Industry," <i>Pharm. Forum</i> 5 (1996).

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TNT	AR	8	Deng, C. and Capecchi, M.R., "Reexamination of Gene Targeting Frequency as a Function of the Extent of Homology between the Targeting Vector and the Target Locus," <i>Mol. Cell. Biol.</i> 12:3365-3371, American Society for Microbiology (1992).
TNT	AS	8	Dominko, T., et al., "Bovine Oocyte as a Universal Recipient Cytoplasm in Mammalian Nuclear Transfer," <i>Theriogenology</i> 49:385, Elsevier Science (January, 1998).
TNT	AT	8	Elsheikh, A.S., et al., "Functional enucleation of mouse metaphase II oocytes with etoposide," <i>Jpn. J. Vet. Res.</i> 45:217-220, Hokkaido University (February, 1998).

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TNT	AR	9	Evans, M.J. and Kaufman, M.H., "Establishment in culture of pluripotential cells from mouse embryos," <i>Nature</i> 292:154-156, Macmillan Publishers Ltd. (1981).
TNT	AS	9	Finn, G.K., et al., "Homologous Plasmid Recombination Is Elevated in Immortally Transformed Cells," <i>Mol. Cell. Biol.</i> 9:4009-4017, American Society for Microbiology (1989).
TNT	AT	9	Fulka, J., et al., "Cloning by somatic cell nuclear transfer," <i>BioEssays</i> 20:847-851, John Wiley & Sons, Inc. (October, 1998).

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TNT	AR	10	Galili, U., et al., "A Unique Natural Human IgG Antibody With Anti- $\alpha$ -Galactosyl Specificity," <i>J. Exp. Med.</i> 160:1519-1531, Rockefeller University Press (1984).
TNT	AS	10	Gerfen, R.W. and Wheeler, M.B., "Isolation of Embryonic Cell-lines from Porcine Blastocysts," <i>Anim. Biotechnol.</i> 6:1-14, Marcel Dekker, Inc. (1995).
TNT	AT	10	Griffiths, G.M., et al., "Somatic mutation and the maturation of immune response to 2-phenyl oxazolone," <i>Nature</i> 312:271-275, Macmillan Publishers Ltd. (1984).

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TNT	AR	11	Hanson, K.D., et al., "Analysis of Biological Selections for High-Efficiency Gene Targeting," <i>Molec. Cell. Biol.</i> 15:45-51, American Society for Microbiology (1995).
TNT	AS	11	Hasty, P., et al., "Gene targeting, principles, and practice in mammalian cells," in: <i>Gene Targeting: A Practical Approach</i> , Ed. Joyner, A.L., Oxford University Press, Oxford, England pp.1-36 (1992).
TNT	AT	11	Hortelano, G., et al., "Persistent Delivery of Factor IX in Mice: Gene Therapy for Hemophilia Using Implantable Microcapsules," <i>Hum. Gene Ther.</i> 10:1281-1288, Mary Ann Liebert, Inc. (May, 1999).

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TNT	AR	12	Hyttinen, J.M., et al., "High-level expression of bovine $\beta$ -lactoglobulin gene in transgenic mice," <i>J. Biotechnol.</i> 61:191-198, Elsevier Science (May, 1998).
TNT	AS	12	Iavarone, A. and Massague, J., "E2F and Histone Deacetylase Mediate Transforming Growth Factor $\beta$ Repression of <i>cdc25A</i> during Keratinocyte Cell Cycle Arrest," <i>Mol. Cell. Biol.</i> 19:916-922, American Society for Microbiology (January, 1999).
TNT	AT	12	Itzhaki, J.E., et al., "Construction by gene targeting in human cells of a 'conditional' <i>CD2</i> mutant that rereplicates its DNA," <i>Nat. Genet.</i> 15:258-265, Macmillan Publishers Ltd. (1997).

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TNT	AR	13	Jeppesen, P., "Histone acetylation: a possible mechanism for the inheritance of cell memory at mitosis," <i>Bioessays</i> 19:67-74, Company of Biologists Ltd. (1997).
TNT	AS	13	Johnson, R.S., et al., "Targeting of Nonexpressed Genes in Embryonic Stem Cells Via Homologous Recombination," <i>Science</i> 245:1234-1236, American Association for the Advancement of Science (1989).
TNT	AT	13	Katayama, A., et al., "Porcine $\alpha$ -1,3-galactosyltransferase: full length cDNA cloning, genomic organization, and analysis of splicing variants," <i>Glycoconjugate J.</i> 15:583-589, Kluwer Academic Publishers (June, 1998).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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		APPLICANT Colman et al.	
		FILING DATE February 25, 2002	GROUP 1632

## U.S. PATENT DOCUMENTS

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AO							Yes No
AP							Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	14	Kato, Y., et al., "Eight Calves Cloned from Somatic Cells of a Single Adult," <i>Science</i> 282:2095-2098, American Association for the Advancement of Science (December, 1998).
TNT	AS	14	Kato, Y. and Tsunoda, Y., "Totipotency and Pluripotency of Embryonic Nuclei in the Mouse," <i>Mol. Reprod. Develop.</i> 36:276-278, Wiley-Liss, Inc. (1993).
TNT	AT	14	Kilby, N.J., et al., "Site-specific recombinases: tools for genome engineering," <i>Trends Genet.</i> 9:413-421, Elsevier Science (1993).

EXAMINER	<i>thorne</i>	DATE CONSIDERED	<i>4/8/04</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>TNT</i>	AR	<u>15</u>	Kono, T., "Nuclear transfer and reprogramming," <i>Reviews Reprod.</i> 2:74-80, <i>Journals of Reproduction and Fertility</i> (1997).
<i>TNT</i>	AS	<u>15</u>	Kren, B.T., et al., "In vivo site-directed mutagenesis of the factor IX gene by chimeric RNA/DNA oligonucleotides," <i>Nat. Med.</i> 4:285-290, Macmillan Publishers Ltd. (March, 1998).
<i>TNT</i>	AT	<u>15</u>	Kubota, C., et al., "Six cloned calves produced from adult fibroblast cells after long-term culture," <i>Proc. Natl. Acad. Sci. USA</i> 97:990-995, National Academy of Sciences (February, 2000).

EXAMINER *theresa*DATE CONSIDERED *4/8/04*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	16	Kwon, O.Y. and Kono, T., "Production of identical sextuplet mice by transferring metaphase nuclei from four-cell embryos," <i>Proc. Natl. Acad. Sci. USA</i> 93:13010-13013, National Academy of Sciences (1996).
TNT	AS	16	Liang, F., et al., "Chromosomal double-strand break repair in Ku80-deficient cells," <i>Proc. Natl. Acad. Sci. USA</i> 93:8929-8933, National Academy of Sciences (1996).
TNT	AT	16	Lukacsovich, T., et al., "Repair of a specific double-strand break generated within a mammalian chromosome by yeast endonuclease I-SceI," <i>Nucl. Acids Res.</i> 22:5649-5657, Oxford University Press (1994).

EXAMINER	<u>thauer</u>	DATE CONSIDERED	4/8/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
TNT	AR	17	Ma, T., et al., "Generation and Phenotype of a Transgenic Knockout Mouse Lacking the Mercurial-insensitive Water Channel Aquaporin-4," <i>J. Clin. Invest.</i> 100:957-962, The American Society for Clinical Investigation Inc. (1997).				
TNT	AS	17	Macháty, Z., et al., "Development of Early Porcine Embryos In Vitro and In Vivo," <i>Biol. Reprod.</i> 59:451-455, Society for the Study of Reproduction (August, 1998).				
TNT	AT	17	Magnaghi-Jaulin, L., et al., "Retinoblastoma protein represses transcription by recruiting a histone deacetylase," <i>Nature</i> 391:601-605, Macmillan Publishers Ltd. (February, 1998).				

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AM						Yes No
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AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	18	Matsui, Y., et al., "Derivation of Pluripotential Embryonic Stem Cells from Murine Primordial Germ Cells in Culture," <i>Cell</i> 70:841-847, Cell Press (1992).
TNT	AS	18	McCreath, K.J., et al., "Production of gene-targeted sheep by nuclear transfer from cultured somatic cells," <i>Nature</i> 405:1066-1069, Macmillan Publishers Ltd. (July, 2000).
TNT	AT	18	McWhir, J., et al., "Selective ablation of differentiated cells permits isolation of embryonic stem cell lines from murine embryos with a non-permissive genetic background," <i>Nat. Genet.</i> 14:223-226, Macmillan Publishers Ltd. (1996).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	19	Mitalipova, M., et al., "Bovine Oocyte Cytoplasm Reprograms Somatic Cell Nuclei From Various Mammalian Species," <i>Theriogenology</i> 49:389, Elsevier Science (January, 1998).
TNT	AS	19	Mitani, et al., "Proliferation Of Alkaline Phosphatase-Positive Cells From Cultured Primordial Germ Cells In Rats," <i>Theriogenology</i> 41:258, Butterworth-Heinemann (1994).
TNT	AT	19	Müller-Ladner, U., et al., "Gene Transfer Of Cytokine Inhibitors Into Human Synovial Fibroblasts In The SCID Mouse Model," <i>Arthritis Rheum.</i> 42:490-497, John Wiley and Sons, Inc. (March, 1999).

EXAMINER Thaler DATE CONSIDERED 4/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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AN						Yes No
AO						Yes No
AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	20	Nickoloff, J.A. and Reynolds, R.J., "Transcription Stimulates Homologous Recombination in Mammalian Cells," <i>Mol. Cell. Biol.</i> 10:4837-4845, American Society for Microbiology (1990).
TNT	AS	20	O'Gorman, S., et al., "Protamine-Cre recombinase transgenes efficiently recombine target sequences in the male germ line of mice, but not in embryonic stem cells," <i>Proc. Natl. Acad. Sci. USA</i> 94:14602-14607, National Academy of Sciences (1997).
TNT	AT	20	Papaioannou, V. and Johnson, R., "Production of chimeras by blastocyst and morula injection of targeted ES cells," in: <i>Gene Targeting: A Practical Approach</i> , Ed. Joyner, A.L., Oxford University Press, Oxford, England, pp.133-176, (1992).

EXAMINER	<i>Thach</i>	DATE CONSIDERED
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
TNT	AR	21	Pazin, M.J. and Kadonaga, J.T., "What's Up and Down with Histone Deacetylation and Transcription?" <i>Cell</i> 89:325-328, Cell Press (1997).				
TNT	AS	21	Piedrahita, J.A., et al., "On The Isolation Of Embryonic Stem Cells: Comparative Behavior Of Murine, Porcine And Ovine Embryos" <i>Theriogenology</i> 34:879-901, Butterworth-Heinemann (1990).				
TNT	AT	21	Piedrahita, J.A., et al., "Generation of Transgenic Porcine Chimeras Using Primordial Germ Cell-Derived Colonies," <i>Biol. Reprod.</i> 58:1321-1329, Society for the Study of Reproduction (May, 1998).				

EXAMINER	<i>tharan</i>	DATE CONSIDERED	4/8/04
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AN						Yes No
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AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	22	Porter, A.C.G., et al., "Gene Targeting. Techniques and Applications to Transplantation," <i>Transplantation</i> 64:1227-1235, Williams & Wilkins (1997).
TNT	AS	22	Prather, R.S., et al., "Nuclear Transplantation in Early Pig Embryos," <i>Biol. Reprod.</i> 41:414-418, Society for the Study of Reproduction (1989).
TNT	AT	22	Prather, R.S. and First, N.L., "Cloning embryos by nuclear transfer," <i>J. Reprod. Fert.</i> Suppl. 41:125-134, Journals of Reproduction and Fertility Ltd. (1990).

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	23	Ramirez-Solis, R. and Bradley, A., "Advances in the use of embryonic stem cell technology," <i>Curr. Opin. Biol. Biotechnol.</i> 5:528-533, Current Biology Ltd. (1994).
TNT	AS	23	Réguilier, E., et al., "Continuous delivery of human and mouse erythropoietin in mice by genetically engineered polymer encapsulated myoblasts," <i>Gene Ther.</i> 5:1014-1022, Stockton Press (August, 1998).
TNT	AT	23	Resnick, J.L., et al., "Long-term proliferation of mouse primordial germ cells in culture," <i>Nature</i> 359:550-551, Macmillan Publishers Ltd. (1992).

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AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	24	Ritchie, W.A. and Campbell, K.H.S., "Intracytoplasmic nuclear injection as an alternative to cell fusion for the production of bovine embryos by nuclear transfer," <i>J. Reprod. Fertil. Abstract</i> 15:60, No. 175, Society for the Study of Fertility (1995).
TNT	AS	24	Ross, M.E., et al., "Identification of a Functional Glucocorticoid Response Element in the Phenylethanolamine N-Methyltransferase Promoter Using Fusion Genes Introduced into Chromaffin Cells in Primary Culture," <i>J. Neurosci.</i> 10:520-530, Society for Neuroscience (1990).
TNT	AT	24	Russell, D.W. and Hirata, R.K., "Human gene targeting by viral vectors," <i>Nat. Genet.</i> 18:325-330, Macmillan Publishers Ltd. (April, 1998).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	25	Sandrin, M.S., et al., "Characterization of cDNA clones for porcine $\alpha$ (1,3)galactosyl transferase: The enzyme generating the Gal $\alpha$ (1,3)Gal epitope," <i>Xenotransplantation</i> 1:81-88, Munksgaard (1994).
TNT	AS	25	Sandrin, M.S., et al., "Identification of Gal $\alpha$ (1,3)Gal as the Major Epitope for Pig-to-Human Vascularised Xenografts," <i>Transplant Rev.</i> 8:134-149, W.B. Saunders Company (1994).
TNT	AT	25	Sargent, R.G., et al., "Repair of Site-Specific Double-Strand Breaks in a Mammalian Chromosome by Homologous and Illegitimate Recombination," <i>Mol. Cell. Biol.</i> 17:267-277, American Society for Microbiology (1997).

EXAMINER	<u>tharan</u>	DATE CONSIDERED	4/8/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	26	Scheerer, J.B. and Adair, G.M., "Homology Dependence of Targeted Recombination at the Chinese Hamster APRT Locus," <i>Mol. Cell. Biol.</i> 14:6663-6673, American Society for Microbiology (1994).
TNT	AS	26	Schnieke, A.E., et al., "Human Factor IX Transgenic Sheep Produced by Transfer of Nuclei from Transfected Fetal Fibroblasts," <i>Science</i> 278:2130-2133, American Association for the Advancement of Science (1997).
TNT	AT	26	Sedivy, J.M., et al., "Gene targeting and somatic cell genetics: a rebirth or a coming of age?", <i>Trends in Genetics</i> 22:88-90, Elsevier Science (March, 1999).

EXAMINER	<i>thorne</i>	DATE CONSIDERED	4/8/09
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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		APPLICANT Colman et al.	
		FILING DATE February 25, 2002	GROUP 1632

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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AL							Yes No
AM							Yes No
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AO							Yes No
AP							Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	27	Shesely, E.G., et al., "Correction of a human $\beta^s$ -globin gene by gene targeting," <i>Proc. Natl. Acad. Sci. USA</i> 88:4294-4298, National Academy of Sciences (1991).
TNT	AS	27	Shim, H., et al., "Isolation of Pluripotent Stem Cells from Cultured Porcine Primordial Germ Cells," <i>Biol. Reprod.</i> 57:1089-1095, Society for the Study of Reproduction (1997).
TNT	AT	27	Smith, A., "Cell therapy: In search of pluripotency," <i>Curr. Biol.</i> 8:R802-R804, Current Biology Ltd. (October, 1998).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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## U.S. PATENT DOCUMENTS

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AL							Yes No
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AN							Yes No
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AP							Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	28	Smithies, O., et al., "Insertion of DNA sequences into the human chromosomal $\beta$ -globin locus by homologous recombination," <i>Nature</i> 317:230-234, Macmillan Publishers Ltd. (1985).
TNT	AS	28	Stacey, A., et al., "Lactation is disrupted by $\alpha$ -lactalbumin deficiency and can be restored by human $\alpha$ -lactalbumin gene replacement in mice," <i>Proc. Natl. Acad. Sci. USA</i> 92:2835-2839, National Academy of Sciences (1995).
TNT	AT	28	Stacey, A., et al., "Use of Double-Replacement Gene Targeting To Replace the Murine $\alpha$ -Lactalbumin Gene with Its Human Counterpart in Embryonic Stem Cells and Mice," <i>Mol. Cell. Biol.</i> 14:1009-1016, American Society for Microbiology (1994).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
TNT	AR	29	Stewart, C.L., et al., "Stem Cells from Primordial Germ Cells Can Reenter the Germ Line," <i>Dev. Biol.</i> 161:626-628, Academic Press, Inc. (1994).				
TNT	AS	29	Stice, S.L., et al., "Pluripotent Bovine Embryonic Cell Lines Direct Embryonic Development Following Nuclear Transfer," <i>Biol Reprod.</i> 54:100-110, Society for the Study of Reproduction (1996).				
TNT	AT	29	Stinnakre, M.G., et al., "Creation and phenotypic analysis of $\alpha$ -lactalbumin-deficient mice," <i>Proc. Natl. Acad. Sci. USA</i> 91:6544-6548, National Academy of Sciences (1994).				

EXAMINER	<i>thorne</i>	DATE CONSIDERED	9/8/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	30	Stokes, T.M., et al., "Production of Chimaeric Bovine Embryos," <i>Theriogenology</i> 41:303, Butterworth-Heinemann (1994).
TNT	AS	30	Strauss, M., "The site-specific correction of genetic defects," <i>Nature Med.</i> 4:274-275, Macmillan Publishers Ltd. (March, 1998).
TNT	AT	30	Suraokar, M. and Bradley, A., "Targeting Sheep," <i>Nature</i> 405:1004-1005, Macmillan Publishers Ltd. (June, 2000).

EXAMINER <i>Sharia</i>	DATE CONSIDERED <i>4/8/04</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1966.0020003/EKS/BJD/FRC
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
TNT	AR	31	Takata, M., et al., "Tyrosine kinases Lyn and Syk regulate B cell receptor-coupled Ca <sup>2+</sup> mobilization through distinct pathways," <i>EMBO J.</i> 13:1341-1349, IRL Press Ltd. (1994).				
TNT	AS	31	Tatham, B.G., et al., "Centrifugation of bovine oocytes for nuclear micromanipulation and sperm microinjection," <i>Human Reprod.</i> 11:1499-1503, Oxford University Press (1996).				
TNT	AT	31	Tearle, R.G., et al., "The $\alpha$ -1,3-Galactosyltransferase Knockout Mouse. Implications for Xenotransplantation," <i>Transplantation</i> 61:13-19, Lippincott Williams & Wilkins (1996).				

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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## U.S. PATENT DOCUMENTS

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AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	32	Te Riele, H., et al., "Highly efficient gene targeting in embryonic stem cells through homologous recombination with isogenic DNA constructs," Proc. Natl. Acad. Sci. USA 89:5128-5132, National Academy of Sciences (1992).
TNT	AS	32	Thomson, J.A., et al., "Embryonic Stem Cell Lines Derived from Human Blastocysts," Science 282:1145-1147, American Association for the Advancement of Science (November, 1998).
TNT	AT	32	Thomson, J.A., et al., "Isolation of a primate embryonic stem cell line," Proc. Natl. Acad. Sci. USA 92:7844-7848, National Academy of Sciences (1995).

EXAMINER	thorne	DATE CONSIDERED	9/8/02
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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AL							Yes
AM							No
AN							Yes
AO							No
AP							Yes

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	33	Thyagarajan, B., et al., "Characterization of homologous DNA recombination activity in normal and immortal mammalian cells," <i>Nucl. Acids Res.</i> 24:4084-4091, Oxford University Press (1996).
TNT	AS	33	Thyagarajan, B. et al., "The effect of target site transcription on gene targeting in human cells in vitro," <i>Nucl. Acids Res.</i> 23:2784-2790, Oxford University (1995).
TNT	AT	33	Tontonoz, P., et al., "Stimulation of Adipogenesis in Fibroblasts by PPAR $\gamma$ 2, a Lipid-Activated Transcription Factor," <i>Cell</i> 79:1147-1156, Cell Press (1994).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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## U.S. PATENT DOCUMENTS

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	34	Trounson, A. and Pera, M., "Potential benefits of cell cloning for human medicine," <i>Reprod. Fertil. Dev.</i> 10:121-125, CSIRO Publishing (1998).
TNT	AS	34	Vignon, X., et al., "Development Of Bovine Nuclear Transfer Embryos Reconstituted With Quiescent And Proliferative Skin Fibroblasts," <i>Theriogenology</i> 51:216, Elsevier Science (January, 1999).
TNT	AT	34	Wakayama, T. et al., "Full-term development of mice from enucleated oocytes injected with cumulus cell nuclei," <i>Nature</i> 394:369-374, Macmillan Publishers Ltd. (July, 1998)

EXAMINER	<i>thao</i>	DATE CONSIDERED	4/8/04
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	35	Weintraub, H., et al., "Activation of muscle-specific genes in pigment, nerve, fat, liver, and fibroblast cell lines by forced expression of MyoD," <i>Proc. Natl. Acad. Sci. USA</i> 86:5434-5438, National Academy of Sciences (1989).
TNT	AS	35	Wells, D.N., et al., "The Use Of Adult Somatic Cell Nuclear Transfer To Preserve The Last Surviving Cow Of The Enderby Island Cattle Breed," <i>Theriogenology</i> 51:217, Elsevier Science (January, 1999).
TNT	AT	35	Wheeler, M.B., "Development and Validation of Swine Embryonic Stem Cells: a Review," <i>Reprod. Fertil. Dev.</i> 6:563-568, CSIRO Publishing (1994).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	<u>36</u>	Whitfield, J.F., et al., "The Control of Cell Proliferation by Calcium, Ca <sup>2+</sup> -Calmodulin and Cyclic AMP," in: Control of Animal Cell Proliferation, Boynton and Leffert eds., Academic Press Inc, London, p. 331-365 (1985).
TNT	AS	<u>36</u>	Willadsen, S.M., "Nuclear transplantation in sheep embryos," Nature 320:63-65, Macmillan Publishers Ltd. (1986).
TNT	AT	<u>36</u>	Wilmut, I., et al., "Viable offspring derived from fetal and adult mammalian cells," Nature 385:810-813, Macmillan Publishers Ltd. (1997).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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AN							Yes
AO							No
AP							Yes
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	37	Wolf, E., et al., "Nuclear transfer in mammals: Recent developments and future perspectives," <i>J. Biotech.</i> 65:99-110, Elsevier Science Ltd. (October, 1998).
TNT	AS	37	Wolffe, A.P., "Histone Deacetylase: A Regulator of Transcription," <i>Science</i> 272:371-372, American Association for the Advancement of Science (1996).
TNT	AT	37	Wu, H., et al., "Double replacement: Strategy for efficient introduction of subtle mutations into the murine <i>Colla-1</i> gene by homologous recombination in embryonic stem cells," <i>Proc. Natl. Acad. Sci. USA</i> 91:2819-2823, National Academy of Sciences (1994).

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AO						Yes No
AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	38	Yáñez, R.J. and Porter, A.C.G., "Therapeutic gene targeting," <i>Gene Ther.</i> 5:149-159, Stockton Press (February, 1998).
TNT	AS	38	Zakhartchenko, V., et al., "Nuclear Transfer in the Bovine Embryo: Developmental Potential of Cultured Adult Cells," <i>Theriogenology</i> 51:218, Elsevier Science (January, 1999).
TNT	AT	38	Zhen, L., et al., "Gene targeting of X chromosome-linked chronic granulomatous disease locus in a human myeloid leukemia cell line and rescue by expression of recombinant gp91 <sup>phox</sup> ," <i>Proc. Natl. Acad. Sci. USA</i> 90:9832-9836, National Academy of Sciences (1993).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	39	Copy of U.S. Application No. 09/377,595, filed August 19, 1999, Kind, et al.
TNT	AS	39	Copy of U.S. Application No. 09/600,130, filed July 12, 2000, Campbell, K.H.S.
TNT	AT	39	Copy of U.S. Application No. 09/614,864, filed July 12, 2000, Colman, et al.

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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TNT	AR	40	Dialog File 351, Accession No. 11714391, Derwent WPI English language abstract for WO 98/06834.
TNT	AS	40	Entrez NCBI, Genbank Report, Accession No. 248305, Hyttinen, J.M., (1995).
TNT	AT	40	Entrez NCBI, Genbank Report, Accession No. U89672, Lou, Y. and Holtz, A., (1997).

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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		ATTY. DOCKET NO. 1966.0020003/EKS/BJD/FRC	APPLICATION NO. 10/080,713
		APPLICANT Colman et al.	
		FILING DATE February 25, 2002	GROUP 1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AL						Yes No
AM						Yes No
AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

TNT	AR	41	Entrez NCBI, Genbank Report, Accession No. U89673, Lou, Y. and Holtz, A., (1997).
	AS		
	AT		

EXAMINER thara DATE CONSIDERED 4/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.